

## CellCrown™12NX and CellCrown™24NX inserts

CellCrown™ inserts immobilize a sample (e.g. fibre, foil, membrane, textile, block-like or tissue sample) in the well of a well plate.

- Material is polycarbonate
- These new insert models are available for 12 and 24-well plates.
- The sample is assembled between the upper and lower parts, which distance can be adjusted by turning according to thickness of the sample.
- This allows attachment of different thicknesses of samples (Figure 1).
- The height of the inserts can be adjusted in the well (Figure 1).
- For thicker samples the bigger part can be used alone, on the top of the sample.
- The inserts are tested with Corning and Nunc well plate models and they work with others, too, when the inner diameter of the wells is within the same range (Table 1).
- The inserts are available as sterile (gamma-irradiated) and non-sterile. Gamma irradiated inserts are yellowish in colour due to effect of radiation. Non-sterile inserts are transparent.
- These inserts are for single use, only, due to risk of cross contamination and wearing of the material between cleaning and sterilization cycles.
- This is the only cell culture insert in the market, which is provided as empty and which is easy to load with the researchers own sample material.

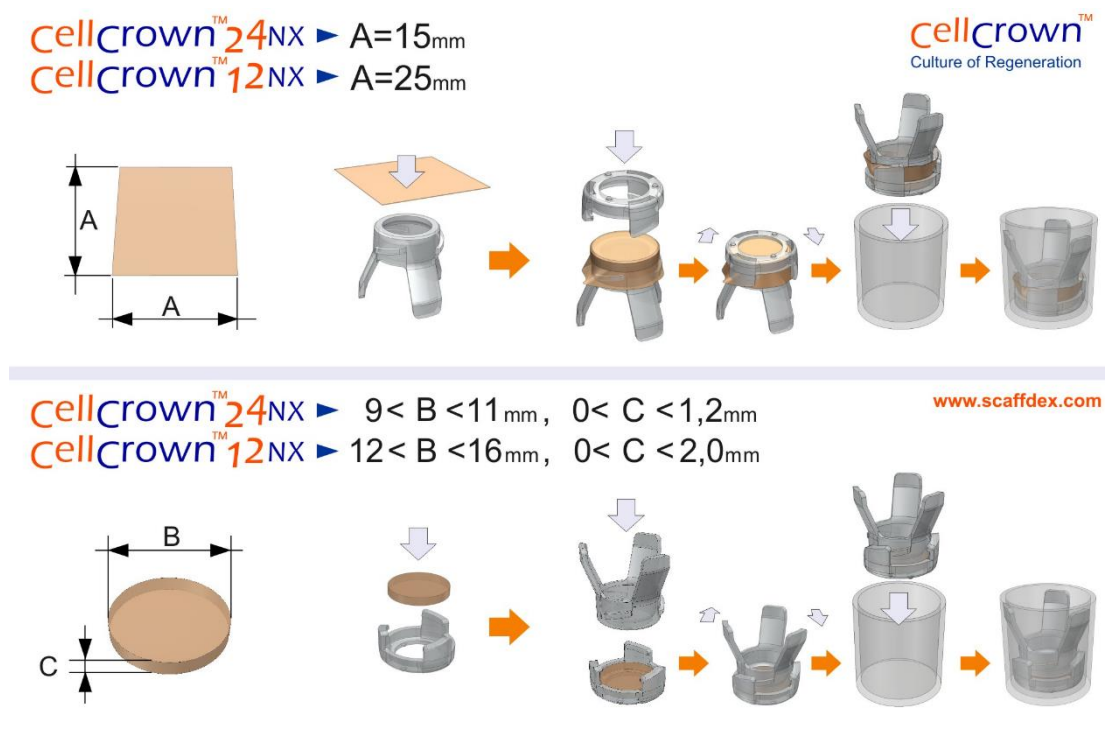


Figure 1. Use of the new CellCrown™NX models with different type of samples

## Applications

Up to date CellCrown™ cell culture inserts have been used in cell culturing experiments in the research of biomaterials, tissue engineering, regenerative medicine, pharmaceuticals, cancer models, and skin substitutes for animal free testing.

Table 1. CellCrown™NX dimensions

Feature	CellCrown™12NX	CellCrown™24NX
Outer diameter of the combination of two parts	19.4 mm	13.7 mm
Inner open diameter	11.7 mm	8.6 mm
Inner open surface area	1.07 cm <sup>2</sup>	0.58 cm <sup>2</sup>
Height of the combination – depends on turning according to thickness of the sample	17.6 mm	< 14.8 mm
The applicable well plate	Standard 12-well plate, like Nunc and Corning	Standard 24-well plate, like Nunc and Corning
Structural feature	Single	Single
Reference numbers	Non-sterile	C00007N
	Sterile	C00007S
Inserts per package	6	12

Ask for further information about different available CellCrown™ inserts from [orders@scaffdex.com](mailto:orders@scaffdex.com).